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Integer points on cubic Thue equations

We shall discuss a natural notion of equivalence on the set of binary cubic forms $F(x, y)$ with integer coefficients and non-zero discriminant. We shall then show that there are infinitely many inequivalent cubic binary forms F with content 1 for which the Thue equation $F(x, y) = m$ has many solutions in integers x and y for infinitely many integers m.